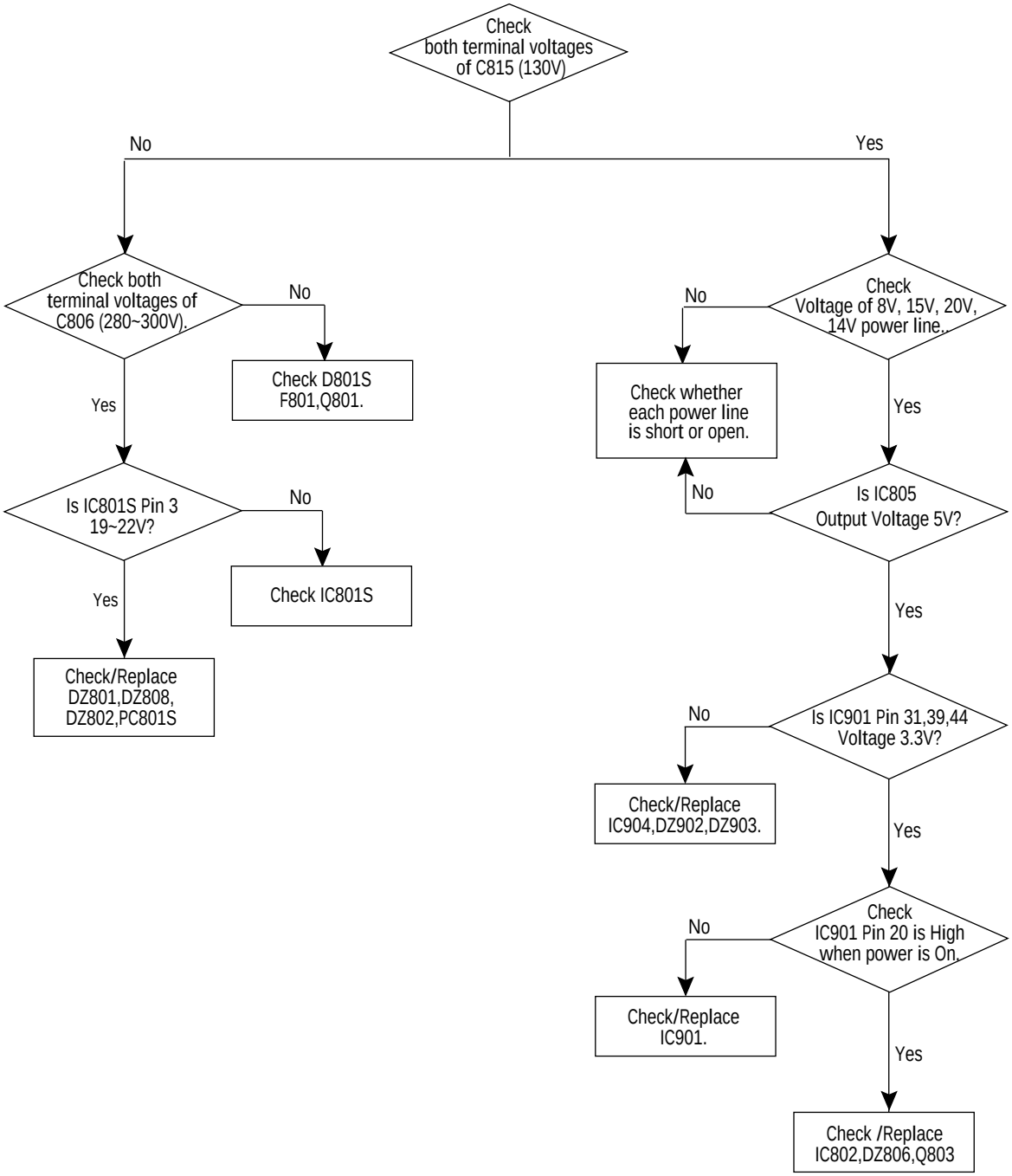
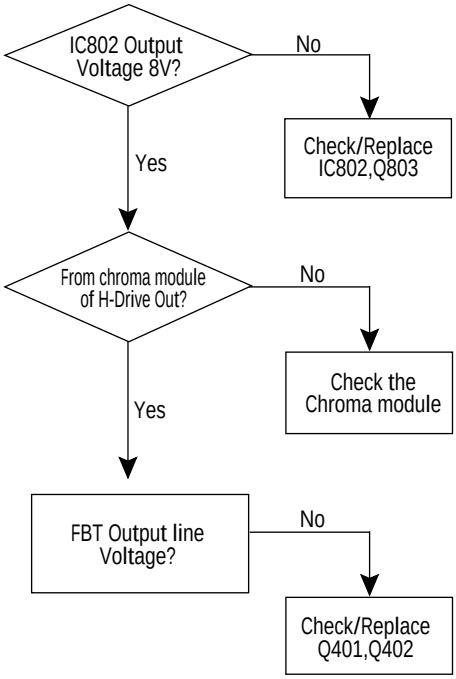
5. Troubleshooting

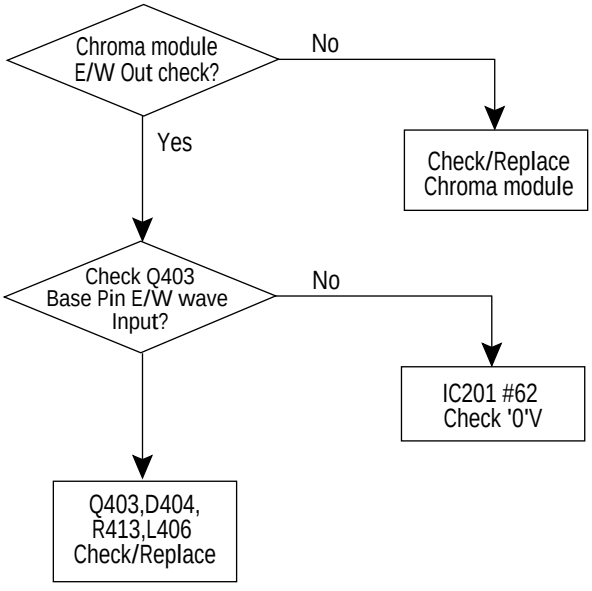
5-1 No Power (No Picture on)



5-2 No Power (No LED On)

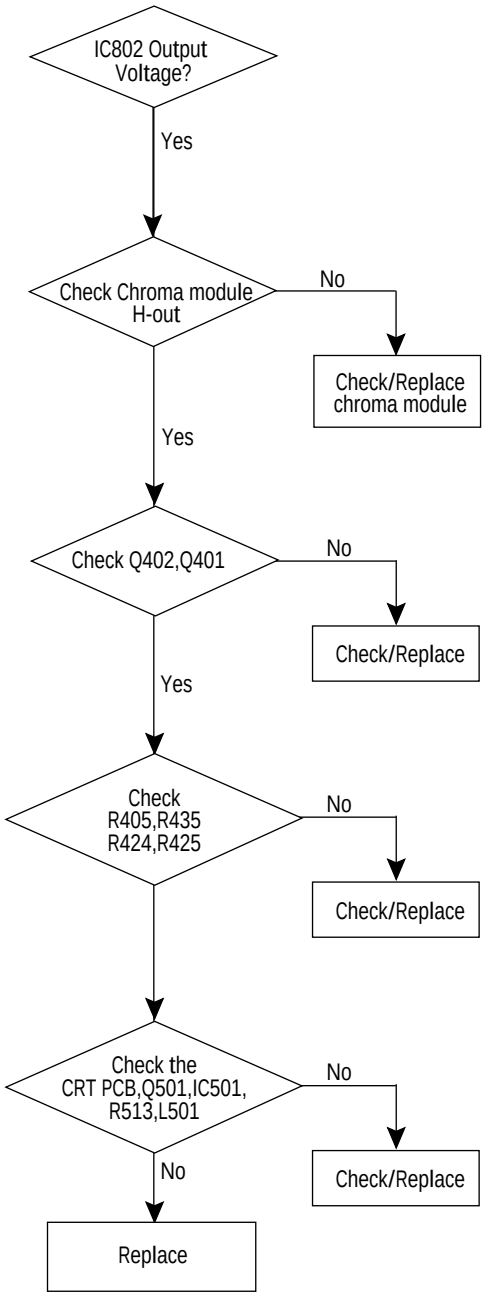


5-3 E/W Correction Not

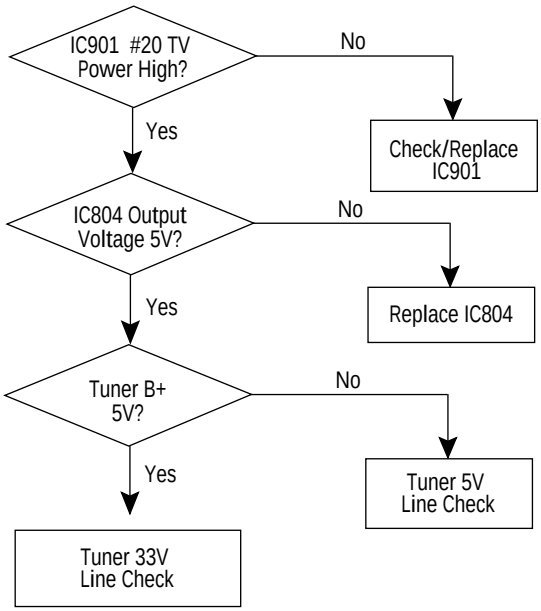


5-4 No Raster / No RF Signal

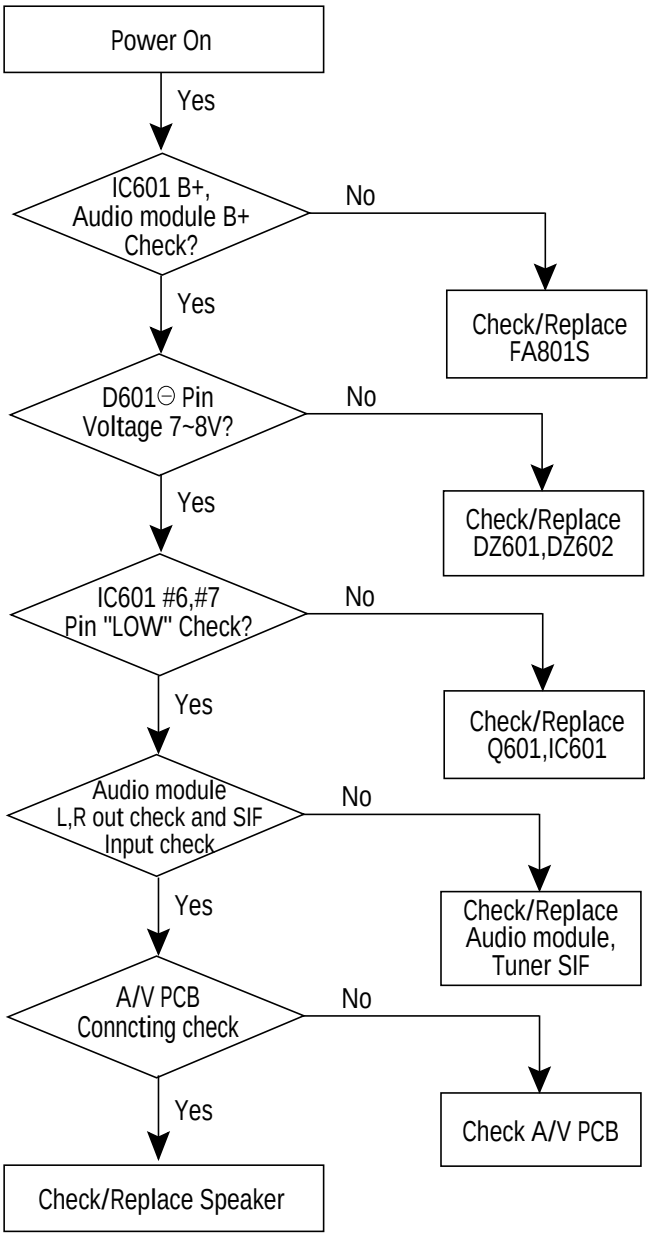
* No Raster



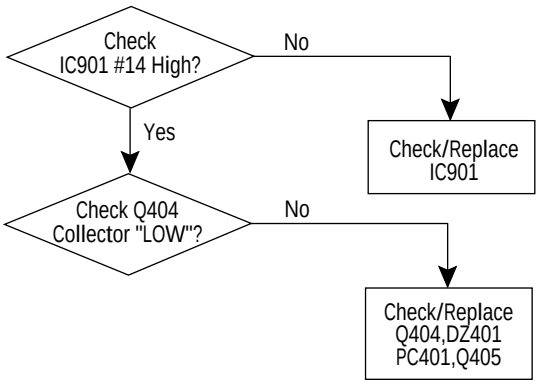
* No signal



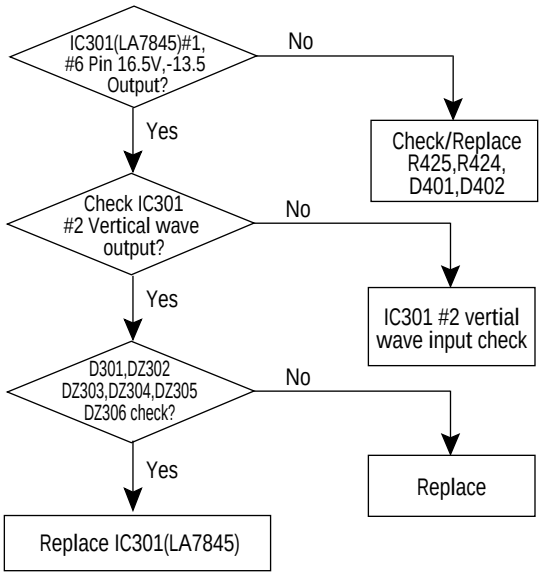
5-5 No Sound


Power On
Yes
IC601 B+, Audio module B+ Check?
No
Check/Replace FA801S
Yes
D601⊖ Pin Voltage 7~8V?
No
Check/Replace DZ601,DZ602
Yes
IC601 #6,#7 Pin "LOW" Check?
No
Check/Replace Q601,IC601
Yes
Audio module L,R out check and SIF Input check
No
Check/Replace Audio module, Tuner SIF
Yes
A/V PCB Conncting check
No
Check A/V PCB
Yes
Check/Replace Speaker

5-6 No PANORAMA



5-7 Horizotal Line



5-8 No Picture (Sound OK)

1 Check the Brightness, Contrast and Color adjustments

2. Check: AV Picture

3. See Video Block Diagram

5-9 No Sound (Picture OK)

1. Check the Volume adjustment level.

2. Check AV Video

3. See Audio Block Diagram

5-10 RF Weak Signal (Playback, AV Mode OK)

1. Check Tuner (TU01S) B+. Check: 8V (IC802)
   33V (DZ201). Check 5V (IC804)

5-11 No Vertical SCAN

1. Check R425, D401

2. Check IC301, #2

3. Check Chroma module Vertical-out Line

4. Check DY Connector

5-12 Horizontal Size

1. Check L406, C411, R421, Q403, D404, R413, R405

5-13 On-Screen Display Missing

1. Check IC901 #32, #33, 34

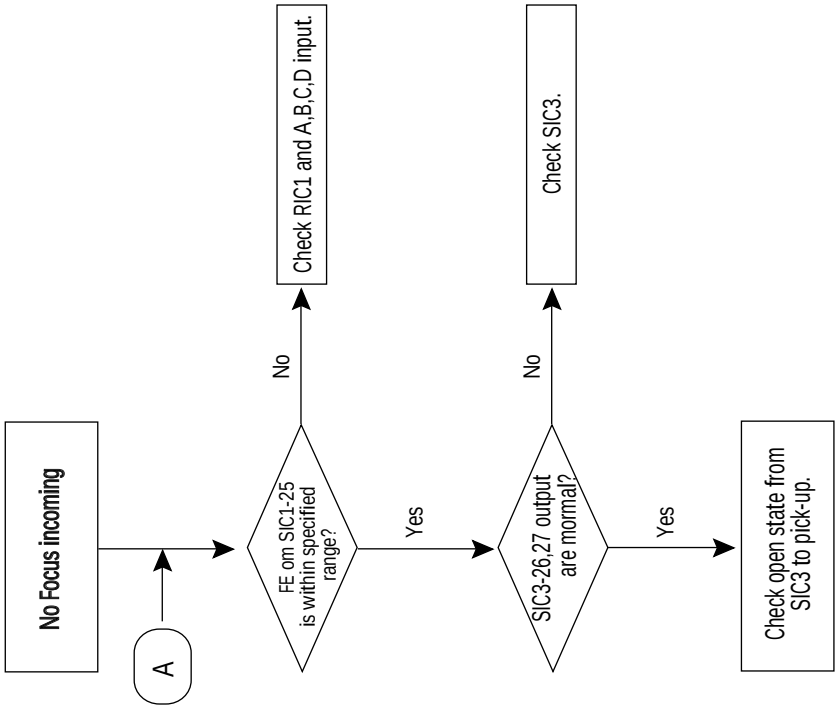
2. Check Chroma module

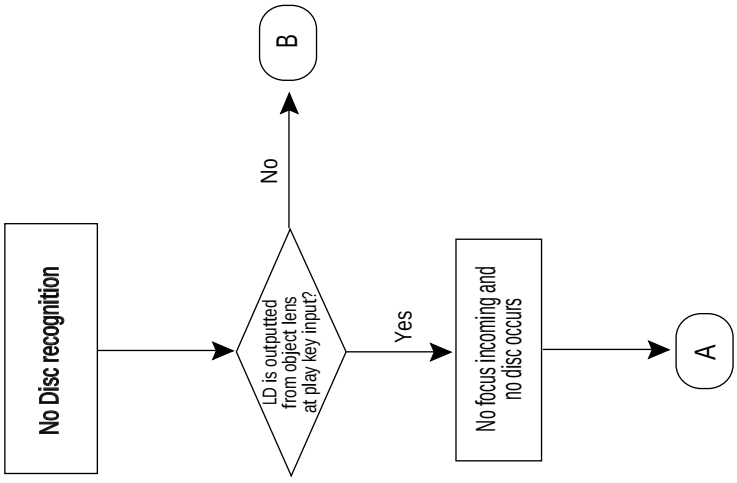
5-14 No Teletext

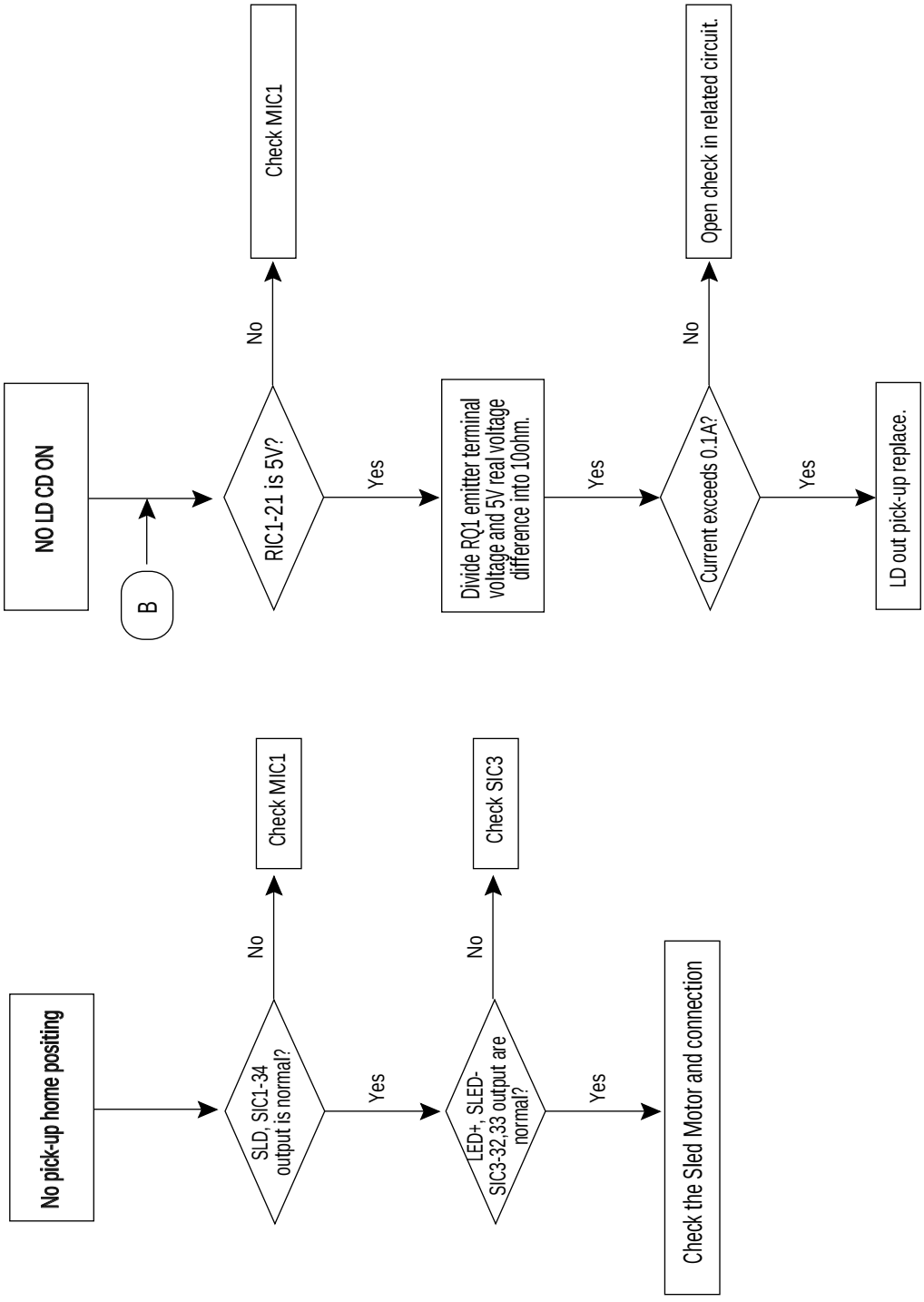
1. Check IC901 #30

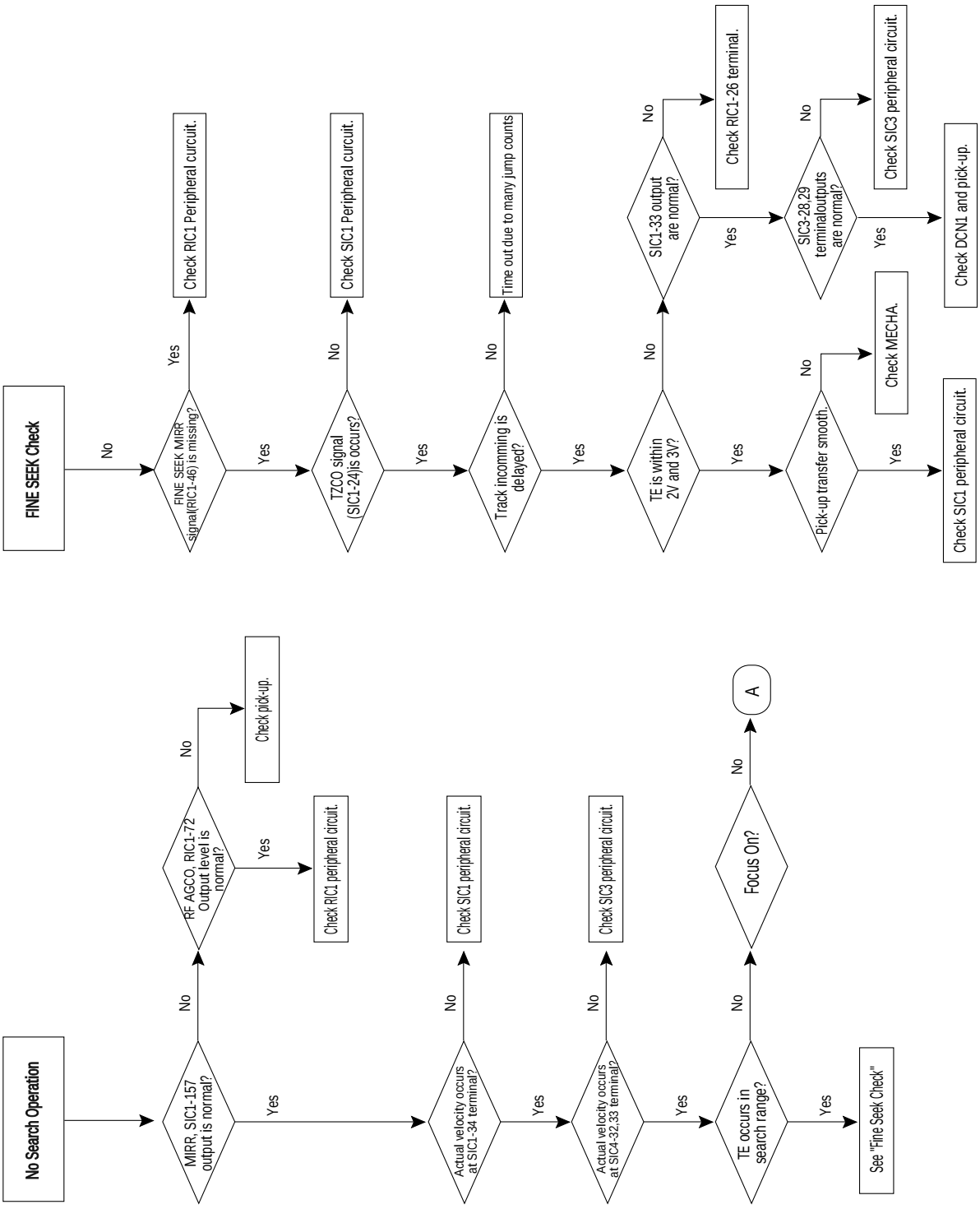
2. Check IC901 #24 (CVBS)

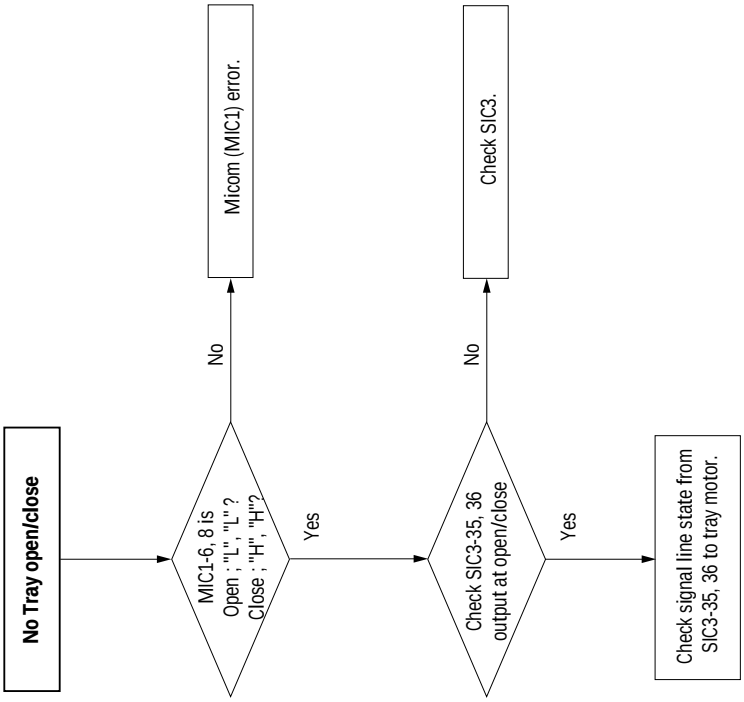
5-15 DVD Block Troubleshooting

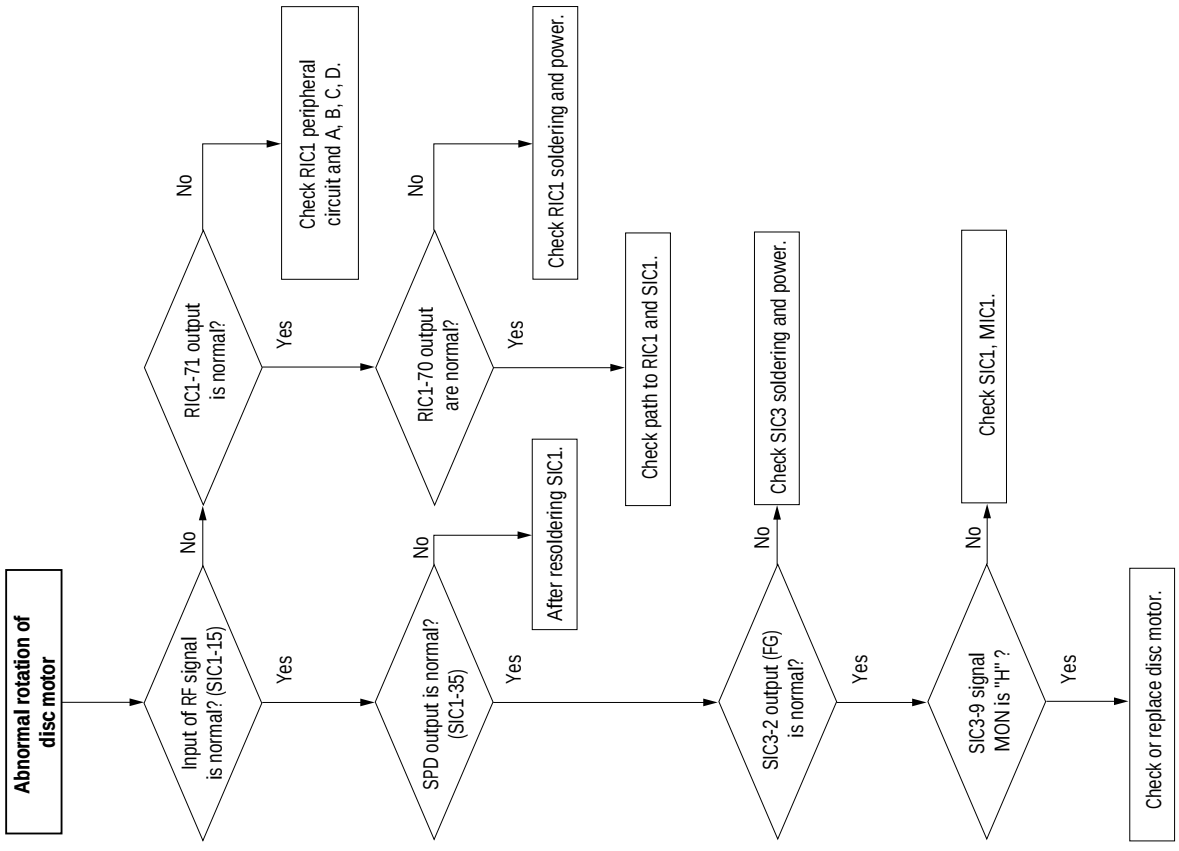


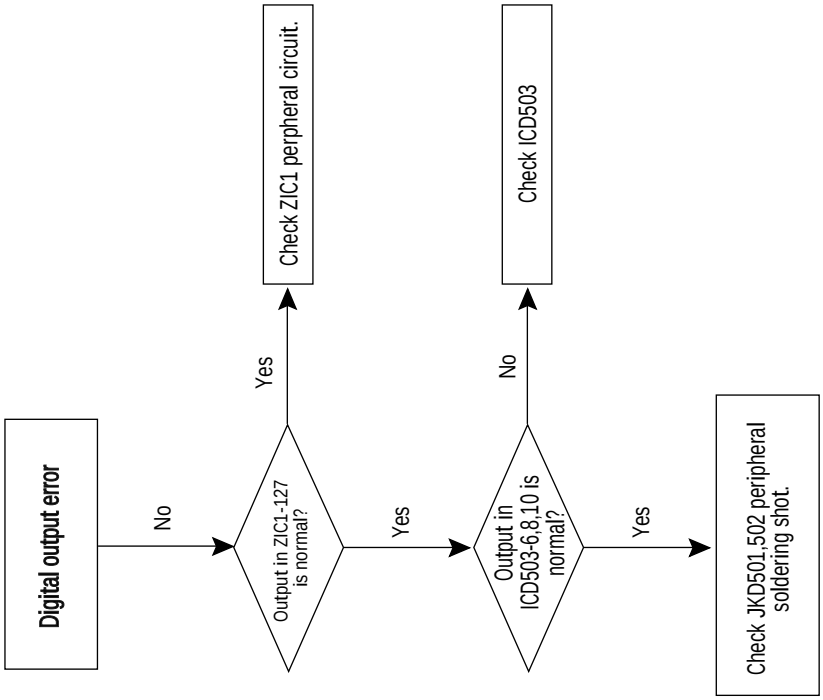


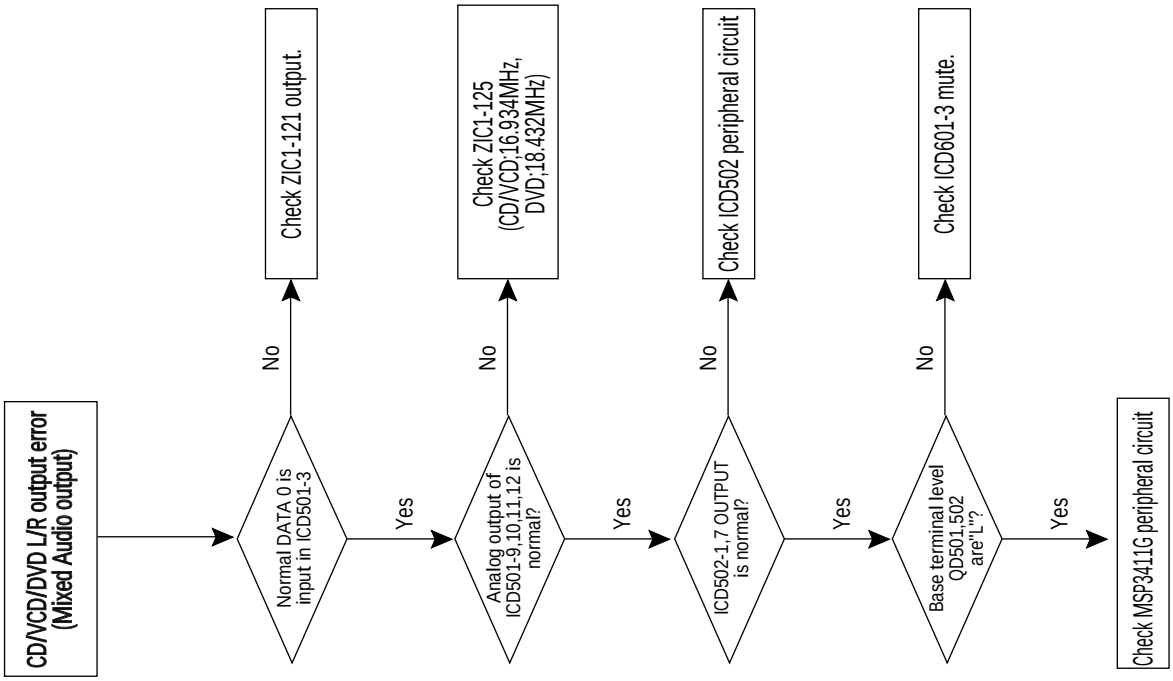

No pick-up home positing
SLD, SIC1-34 output is normal?
No
Check MIC1
Yes
LED+, SLED- SIC3-32,33 output are normal?
No
Check SIC3
Yes
Check the Sled Motor and connection
NO LD CD ON
B
RIC1-21 is 5V?
No
Check MIC1
Yes
Divide RQ1 emitter terminal voltage and 5V real voltage difference into 10ohm.
Yes
Current exceeds 0.1A?
No
Open check in related circuit.
Yes
LD out pick-up replace.


No Search Operation
MIRR, SIC1-157 output is normal?
No
Yes
RF AGCO, RIC1-72 Output level is normal?
No
Check pick-up.
Yes
Check RIC1 peripheral circuit.
Actual velocity occurs at SIC1-34 terminal?
No
Check SIC1 peripheral circuit.
Yes
Actual velocity occurs at SIC4-32,33 terminal?
No
Check SIC3 peripheral circuit.
Yes
TE occurs in search range?
No
Focus On?
No
A
Yes
See "Fine Seek Check"
FINE SEEK Check
No
FINE SEEK MIRR signal(RIC1-46) is missing?
Yes
Check RIC1 Peripheral curcuit.
Yes
TZCO signal (SIC1-24)is occurs?
No
Check SIC1 Peripheral curcuit.
Yes
Track incomming is delayed?
No
Time out due to many jump counts
Yes
TE is within 2V and 3V?
No
SIC1-33 output are normal?
No
Check RIC1-26 terminal.
Yes
Pick-up transfer smooth.
No
Check MECHA.
Yes
Check SIC1 peripheral circuit.
SIC3-28,29 terminaloutputs are normal?
No
Check SIC3 peripheral circuit.
Yes
Check DCN1 and pick-up.

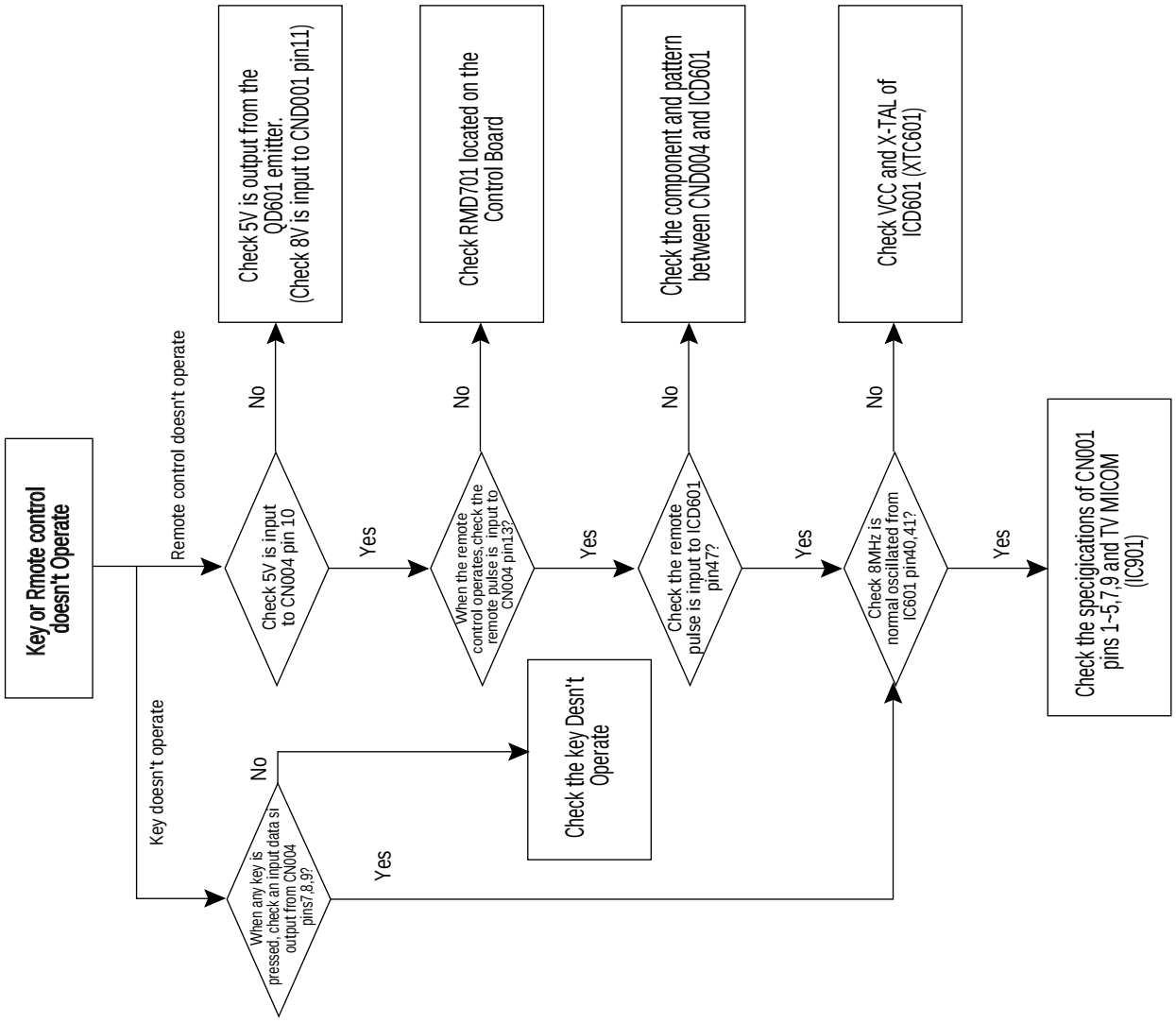

No Tray open/close
MIC1-6, 8 is
Open : "L", "L" ?
Close : "H", "H"?
No
Micom (MIC1) error.
Yes
Check SIC3-35, 36
output at open/close
No
Check SIC3.
Yes
Check signal line state from
SIC3-35, 36 to tray motor.


Abnormal rotation of
disc motor
Input of RF signal
is normal? (SIC1-15)
No
RIC1-71 output
is normal?
No
Check RIC1 peripheral
circuit and A, B, C, D.
Yes
RIC1-70 output
are normal?
No
Check RIC1 soldering and power.
Yes
Check path to RIC1 and SIC1.
Yes
SPD output is normal?
(SIC1-35)
No
After resoldering SIC1.
Yes
SIC3-2 output (FG)
is normal?
No
Check SIC3 soldering and power.
Yes
SIC3-9 signal
MON is "H" ?
No
Check SIC1, MIC1.
Yes
Check or replace disc motor.


Digital output error
No
Output in ZIC1-127 is normal?
Yes
Check ZIC1 perpheral circuit.
Yes
Output in ICD503-6,8,10 is normal?
No
Check ICD503
Yes
Check JKD501,502 peripheral soldering shot.


CD/VCD/DVD L/R output error (Mixed Audio output)
Normal DATA 0 is input in ICD501-3
No
Check ZIC1-121 output.
Yes
Analog output of ICD501-9,10,11,12 is normal?
No
Check ZIC1-125 (CD/VCD:16.934MHz, DVD;18.432MHz)
Yes
ICD502-1,7 OUTPUT is normal?
No
Check ICD502 peripheral circuit
Yes
Base terminal level QD501,502 are"L"?
No
Check ICD601-3 mute.
Yes
Check MSP3411G peripheral circuit

5-16 Trobleshooting


Key or Rmote control doesn't Operate
Remote control doesn't operate
Key doesn't operate
Check 5V is input to CN004 pin 10
No
Yes
Check 5V is output from the QD601 emitter. (Check 8V is input to CND001 pin11)
When the remote control operates, check the remote pulse is input to CN004 pin13?
No
Yes
Check RMD701 located on the Control Board
Check the remote pulse is input to ICD601 pin47?
No
Yes
Check the component and pattern between CND004 and ICD601
Check 8MHz is normal oscillated from IC601 pin40,41?
No
Yes
Check VCC and X-TAL of ICD601 (XTC601)
When any key is pressed, check an input data si output from CN004 pins7,8,9?
No
Yes
Check the key Desn't Operate
Check the specigications of CN001 pins 1~5,7,9 and TV MICOM (IC901)